

1

1	CCGGTGCCAG	CCCAGGTGCT	CGCGGCCTGG	CTCCATG GCC	CTGGTCACAG	TGAGCCGTT C
61	GCCCCCGGGC	AGCGGCGCCT	CCACGCCCCT	GGGGCCCTGG	GACCAGGCGG	TCCAGCGAAG
121	GAGTCGACTC	CAGCGAAGGC	AGAGCTTTGC	GGTGCTCCGT	GGGGCTGTCC	TGGGACTGCA
181	GGATGGAGGG	GACAATGATG	ATGCAGCAGA	GGCCAGTTCT	GAGCCAACAG	AGAAGGCCCC
241	GAGTGAGGAG	GAGCTCCACG	GGGACCAGAC	AGACTTCGGG	CAAGGATCCC	AGAGTCCCCA
301	GAAGCAGGAG	GAGCAGAGGC	AGCACCTGCA	CCTCATGGTA	CAGCTGCTGA	GGCCGCAGGA
361	TGACATCCGC	CTGGCAGCCC	AGCTGGAGGC	ACCCCGGCCCT	CCCCGGCTCC	GCTACCTGCT
421	GGTAGTTTCT	ACACGAGAAG	GAGAAGGTCT	GAGCCAGGAT	GAGACGGTCC	TCCTGGGCGT
481	GGATTTCCCT	GACAGCAGCT	CCCCCAGCTG	CACCCTGGGC	CTGGTCTTGC	CCCTCTGGAG
541	TGACACCCAG	GTGTACTTAG	ATGGAGACGG	GGGCTTCAGC	GTGACGTCTG	GTGGGGCAAAG
601	CCGGATCTTC	AAGCCCATCT	CCATCCAGAC	CATGTGGGCC	AACTCCAGG	TATTGCACCA
661	AGCATGTGAG	GCAGCTCTAG	GCAGCGGCGT	TGTACCGGGT	GGCAGTGCCC	TCACCTGGGC
721	CAGCCACTAC	CAGGAGAGAC	TGAACCTCCA	ACAGAGCTGC	CTCAATGAGT	GGACGGCTAT
781	GGCCGACCTG	GAGTCTCTGC	GGCTCCCAG	CGCCGAGCCT	GGCGGGTCTCT	CAGAACAGGA
841	GCAGATGGAG	CAGGCGATCC	GTGCTGAGCT	GTGGAAAAGTG	TTGGATGTCA	GTGACCTGGA
901	GAGTGTCACT	TCCAAAGAGA	TCCGCCAGGC	TCTGGAGCTG	CGCCTGGGGC	TCCCCCTCCA
961	GCAGTACCGT	GACTTCATCG	ACAACCAGAT	GCTGCTGCTG	GTGGCACAGC	GGGACCGAGC
1021	CTCCCGCATC	TTCCCCCACC	TCTACCTGGG	CTCAGAGTGG	AACGCAGCAA	ACCTGGAGGA
1081	GCTGCAGAGG	AACAGGGTCA	CCCACATCTT	GAACATGGCC	CGGGAGATTG	ACAACCTCTA
1141	CCCTGAGCGC	TTACCTTACC	ACAATGTGCG	CCTCTGGGAT	GAGGAGTCGG	CCCAGCTGCT
1201	GCCGCACTGG	AAGGAGACGC	ACCGCTTCAT	TGAGGCTGCA	AGAGCACAGG	GCACCCACGT
1261	GCTGGTCCAC	TGCAAGATGG	GCGTCAGCCG	CTCAGCGGCC	ACAGTGCTGG	CCTATGCCAT
1321	GAAGCAGTAC	GAATGCAGCC	TGGAGCAGGC	CCTGCGCCAC	GTGCAGGAGC	TCCGGCCCAT
1381	CGCCCGCCCC	AACCCTGGCT	TCCTGCGCCA	GCTGCAGATC	TACCAGGGCA	TCCTGACGGC
1441	CAGCCGCCAG	AGCCATGTCT	GGGAGCAGAA	AGTGGGTGGG	GTCTCCCCAG	AGGAGCACCC
1501	AGCCCCTGAA	GTCTCTACAC	CATTCCCACC	TCTTCCGCCA	GAACCTGAGG	GTGGTGGGGA
1561	GGAGAAGGTT	GTAGGCATGG	AAGAGAGCCA	GGCAGCCCCG	AAAGAAGAGC	CTGGGGCCAG
1621	GCCACGTATA	AACCTCCGAG	GGGTGATGAG	GTCCATCAGT	CTTCTGGAGC	CCTCCTTGGA
1681	GCTGGAGAGC	ACCTCAGAGA	CCAGTGACAT	GCCAGAGGTC	TTCTCTTCCC	ACGAGCTTTC
1741	ACATGAAGAG	CCCTCTGCAGC	CCTTCCCACA	GCTTGCAAGG	ACCAAGGGAG	GCCAGCAGGT
1801	GGACAGGGGG	CCTCAGCCTG	CCCTGAAGTC	CCGCCAGTCA	GTGGTTACCC	TCCAGGGCAG
1861	TGCCGTGGTG	GCCAACCGGA	CCCAGGCCTT	CCAGGAGCAG	GAGCAGGGGC	AGGGGCAGGG
1921	GCAGGGAGAG	CCCTGCATTT	CCTCTACGCC	CAGGTTCCGG	AAGGTGGTGA	GACAGGCCAG
1981	CGTGCATGAC	AGTGGAGAGG	AGGGCGAGGC	CTGAGCCCTC	ACACATGCCC	ACGCTCCCCT
2041	GAACTGAAG	AGGATCCACA	ACTCCTTGGA	GAAACACCCT	CACGTCTGTT	GCCGCACACA
2101	TTCTCTCAG	CTCCGCCCCA	TACCCGTCAC	TACAGCCTCA	CCTCCCACCC	CTGTACTACT
2161	GGCTCACCT	CCCACCCCTG	TCACTACAGC	CTCACCTCCT	ACAGCCTTAA	GTCCCAGGCC
2221	CATGTCTGCC	TGTTCAAGGG	CTCAAGACTT	TCTAACTGGG	ATGTGGTAGA	GGGACTGAAG
2281	GTACCTTTGG	GGGCAACAGC	ACCCTAGTTT	CATTCTCAAC	TCTAGCCCTG	CACACTCACC
2341	TGTGGCACGG	AATGAAAAACA	GAGCTTCCCG	TGCAAAAAGG	GTCACGCCTC	CCACCCCCGC
2401	CCCCTCCCTG	CACCTCCTGT	CCTCTCCCAG	TTCAATTCCTG	GAACCAGCCA	GGCCAGGCAA
2461	CCAGTGGCCC	CCAAAGGCAG	GCAGGATCCT	CAGGCCCCAG	CCGCGGGAGG	CTGGAAGGGC
2521	TGGCAGATCG	CTTCCCTCAT	CCACCTCCAC	CGGTCCAGGT	CTTTGCTGCT	GTCCCCAGAC
2581	CTCCTGTGAC	ACCACGCCAG	ATCACAGGGC	ACCAGGCCAG	AGATAGTCTT	CTTTTTGTCC
2641	TTTCTGGCCT	CTGGCTAGTC	AGTTTTTCAT	AGCCTTACAG	TATCTGGCTT	TGTACTGAGA
2701	AATAAAACAC	ATTTTCAT				

MALVTVSRSPPGSGASTPVGPWDQAVQRRSRLQRRQSFAVLRLGAVLGLQDGGDNDAAEASSEPTKEKAPSEEEHLHGD
QTDFGQGSQSPOKQEEQRQHLHLMVQLLRPQDDIRLAAQLEAPRPRLRYLLVVSTREGEGLSQDETVLLGVDFPDS
SSPSCITLGLVLPWSDTQVYLDGDGGFSVTSGGQSRIFKPISIQTMWATLQVLHQACEAALGSLVPGGSSALTWASH
YQERLNSEQSCLNEWTAMADLES LRPPSAEPGGSSEQE QMEQAIRAELWKVLDVSDLESVTSKEIRQALELRGLPL
QQYRDFIDNQMLLLVAQRDRASRIFPHLYLGSEWNAANLEELQRNRVTHILNMAREIDNFYPERFITYHNVRWDEES
AQLLPHWKETHRFIEAARAQGTHVLVHCKMGVSRSAATVLAYAMKQYECSSLEQALRHVQELRPIARPNPGFRLQLOI
YQGILTASRQSHVWEQKVGVSPEEHPAPEVSTPFPPLPPEPEGGGEEKVVGMEESQAAPKEEPPRPRINLRGVMR
SISLLEPSLELESTSETSDMPEVFSSHESSHEEPLQFPFQLARTKGGQQVDRGPPALKSRQSVVTLQGS AVVANRT
QAFQE QE QGQGGQGEPCISSTPRFRKVVVRQASVHDSGEEGEA

Year	Age	Sex	Weight (kg)	Length (cm)	Condition
1970	10	M	10.5	110	Good
1971	11	F	11.2	115	Good
1972	12	M	12.8	120	Good
1973	13	F	13.5	125	Good
1974	14	M	14.2	130	Good
1975	15	F	15.0	135	Good
1976	16	M	16.5	140	Good
1977	17	F	17.2	145	Good
1978	18	M	18.0	150	Good
1979	19	F	19.5	155	Good
1980	20	M	20.2	160	Good
1981	21	F	21.0	165	Good
1982	22	M	22.5	170	Good
1983	23	F	23.2	175	Good
1984	24	M	24.0	180	Good
1985	25	F	25.5	185	Good
1986	26	M	26.2	190	Good
1987	27	F	27.0	195	Good
1988	28	M	28.5	200	Good
1989	29	F	29.2	205	Good
1990	30	M	30.0	210	Good
1991	31	F	31.5	215	Good
1992	32	M	32.2	220	Good
1993	33	F	33.0	225	Good
1994	34	M	34.5	230	Good
1995	35	F	35.2	235	Good
1996	36	M	36.0	240	Good
1997	37	F	37.5	245	Good
1998	38	M	38.2	250	Good
1999	39	F	39.0	255	Good
2000	40	M	40.5	260	Good
2001	41	F	41.2	265	Good
2002	42	M	42.0	270	Good
2003	43	F	43.5	275	Good
2004	44	M	44.2	280	Good
2005	45	F	45.0	285	Good
2006	46	M	46.5	290	Good
2007	47	F	47.2	295	Good
2008	48	M	48.0	300	Good
2009	49	F	49.5	305	Good
2010	50	M	50.2	310	Good
2011	51	F	51.0	315	Good
2012	52	M	52.5	320	Good
2013	53	F	53.2	325	Good
2014	54	M	54.0	330	Good
2015	55	F	55.5	335	Good
2016	56	M	56.2	340	Good
2017	57	F	57.0	345	Good
2018	58	M	58.5	350	Good
2019	59	F	59.2	355	Good
2020	60	M	60.0	360	Good

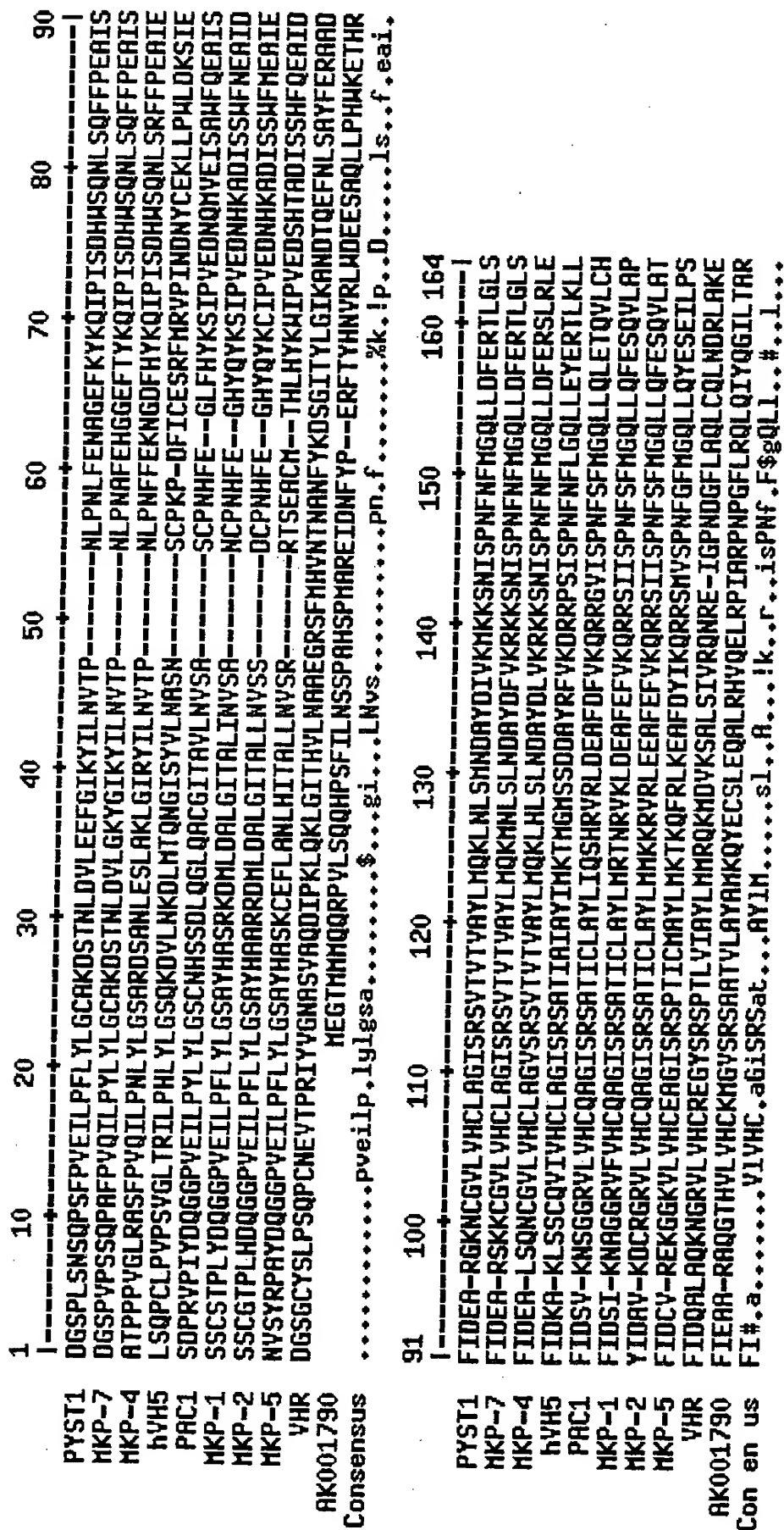


Figure 4

1 CCGGTGCCAG CCCAGGTGCT CGCGGCCTGG CTCCATGGCC CTGGTCACAG TGAGCCGTTT
61 GCGGGCGGGC AGCGGCGCCT CCACGCCCCT GGGGCCCTGG GACCAGGCGG TCCAGCGAAG
121 GAGTCGACTC CAGCGAAGGC AGAGCTTTGC GGTGCTCCGT GGGGCTGTCC TGGGACTGCA
181 GGATGGAGGG GACAATGATG ATGCAGCAGA GGCCAGTTCT GAGCCAACAG AGAAGGCCCC
241 GAGTGAGGAG GAGCTCCACG GGGACCAGAC AGACTTCGGG CAAGGATCCC AGAGTCCCCA
301 GAAGCAGGAG GAGCAGAGGC AGCACCTGCA CCTCATGGTA CAGCTGCTGA GGCCGCAGGA
361 TGACATCCGC CTGGCAGCCC AGCTGGAGGC ACCCGGCCT CCGCGCTCC GCTACCTGCT
421 GGTAGTTTCT ACACGAGAAG GAGAAGGTCT GAGCCAGGAT GAGACGGTCC TCCTGGGCGT
481 GGATTTCCCT GACAGCAGCT CCCCCAGCTG CACCTGGGC CTGGTCTTGC CCCTCTGGAG
541 TGACACCCAG GTGTACTTAG ATGGAGACGG GGGCTTCAGC GTGACGTCTG GTGGGCAAAG
601 CCGGATCTTC AAGCCCATCT CCATCCAGAC CATGTGGGCC AACTCCAGG TATTGCACCA
661 AGCATGTGAG GCAGCTCTAG GCAGCGGCCT TGTACGGGT GGCAGTGCCC TCACCTGGGC
721 CAGCCACTAC CAGGAGAGAC TGAATCCGA ACAGAGCTGC CTCAATGAGT GGACGGCTAT
781 GGCCGACCTG GAGTCTCTGC GGCCTCCAG CGCCGAGCCT GCGGGTCTT CAGAACAGGA
841 GCAGATGGAG CAGGCGATCC GTGCTGAGCT GTGGAAAGTG TTGGATGTCA GTGACCTGGA
901 GAGTGTCACT TCCAAAGAGA TCCGCCAGGC TCTGGAGCTG CGCCTGGGGC TCCCCCTCCA
961 GCAGTACCGT GACTTCATCG ACAACCAGAT GCTGCTGCTG GTGGCACAGC GGGACCGAGC
1021 CTCCCGCATC TTCCCCACC TCTACCTGGG CTCAGAGTGG AACGCAGCAA ACCTGGAGGA
1081 GCTGCAGAGG AACAGGGTCA CCCACATCTT GAACATGGCC CGGGAGATTG ACAACTTCTA
1141 CCCTGAGCGC TTCACCTACC ACAATGTGCG CCTCTGGGAT GAGGAGTCGG CCCAGCTGCT
1201 GCCGCACTGG AAGGAGACGC ACCGCTTCAT TGAGGCTGCA AGAGCACAGG GCACCCACGT
1261 GCTGGTCCAC TGCAAGATGG GCGTCAGCCG CTCAGCGGCC ACAGTGCTGG CCTATGCCAT
1321 GAAGCAGTAC GAATGCAGCC TGGAGCAGGC CCTGCGCCAC GTGCAGGAGC TCCGGCCCCAT
1381 CGCCCGCCCC AACCTGGCT TCCTGCGCCA GCTGCAGATC TACCAGGGCA TCCTGACGGC
1441 CAGAACCTGA GGGTGGTGGG GAGGAGAAGG TTGTAGGCAT GGAAGAGAGC CAGGCAGCCC
1501 CGAAAGAAGA GCCTGGGCCA CGGCCACGTA TAAACCTCCG AGGGGTCATG AGGTCCATCA
1561 GTCTTCTGGA GCCCTCCTTG GAGCTGGAGA GCACCTCAGA GACCAGTGAC ATGCCAGAGG
1621 TCTTCTCTTC CCACGAGTCT TCACATGAAG AGCCTCTGCA GCCCTTCCCA CAGCTTGCAA
1681 GGACCAAGGG AGGCCAGCAG GTGGACAGGG GGCCTCAGCC TGCCCTGAAG TCCCGCCAGT
1741 CAGTGGTTAC CCTCCAGGGC AGTGCCGTGG TGGCCAACCG GACCCAGGCC TTCCAGGAGC
1801 AGGAGCAGGG GCAGGGGCAG GGGCAGGGAG AGCCCTGCAT TTCCTCTACG CCCAGGTTCC
1861 GGAAGGTGGT GAGACAGGCC AGCGTGCATG ACAGTGGAGA GGAGGGCGAG GCCTGAGCCC
1921 TCACACATGC CCACGCTCCC CTGACACTGA AGAGGATCCA CAACTCCTTG GAGAAACACC
1981 CTCACGTCTG TTGCCGCACA CATTCCTCTC AGCTCCGCCC CATACCCGTC ACTACAGCCT
2041 CACCTCCCAC CCCTGTCACT ACGGCCTCAC CTCCCACCCC GTCACTACA GCCTCACCTC
2101 CTACAGCCTT AAGTCCCAGG CCCATGTCTG CCTGTCCAAG GGCTCAAGAC TTTCTAACTG
2161 GGATGTGGTA GAGGGACTGA AGGTACCTTT GGGGGCAACA GCACCTAGT TTCATTCTCA
2221 ACTCTAGCCC TGCACTACTCA CCTGTGGCAC GGAATGAAAA CAGAGCTTCC CGTGCAAAAA
2281 GGGTCACGCC TCCCACCCCC GCCCCCTCCC TGCACCTCCT GTCCTCTCCC AGTTCACTCC
2341 TGGAAACCAG CAGGCCAGGC AACCAGTGGC CCCCAAAGGC AGGCAGGATC CTCAGGCCCC
2401 AGCCGCGGGA GGCTGGAAGG GCTGGCAGAT CGTTCCCTC ATCCACCTCC ACCGGTCCAG
2461 GTCTTTGCTG CTGTCCCCAG ACCTCCTGTG ACACCACGCC AGATCACAGG GCACCAGGCC
2521 AGAGATAGTC TTCTTTTTGT CCTTTCTGGC CTCTGGCTAG TCAGTTTTTC ATAGCCTTAC
2581 AGTATCTGGC TTTGTACTGA GAAATAAAAC ACATTTTC

Figure 5

MALVTVSRSPPGSGASTPVGPWDQAVQRRSRLQRRQSFAVLRGAVLGLQDGGDNDAAEASSEPTKAPSEEEELHGD
QTDFGQGSQSPQKQEEQRQHLHLMVQLLRPQDDIRLAAQLEAPRPRLRYLLVVSTREGEGLSQDETVLLGVDFPDS
SSPCTLGLVPLWSDTQVYLDGGGFSVTSGGQSRI FKPI SIQT MWATLQVLHQACEAALGSGLVPGGSALTWASH
YQERLNSEQSCLNEWTAMADLES LRPPSAEPGGSSEQEQMEQAI RAELWKVLDVSDLESVTSKEIRQALELRLGLPL
QQYRDFIDNQMLLLVAQRDRASRI FPHLYLGSEWNAANLEELQRNRVTHILNMAREIDNFYPERFTYHNVRLWDEES
AQLLPHWKETHRFIEAARAQGTHVLVHCKMGVSRSAATV LAYAMKQYEC SLEQALRHVQELRPIARP NPGFLRQLQI
YQGILTART

2001-0433

DSP-15	1	10	20	30	40	50	60	70	80	90	100	110	120	130
AB036834	1	10	20	30	40	50	60	70	80	90	100	110	120	130
DSP-13	1	10	20	30	40	50	60	70	80	90	100	110	120	130
DSP-12	1	10	20	30	40	50	60	70	80	90	100	110	120	130
Consensus	1	10	20	30	40	50	60	70	80	90	100	110	120	130
DSP-15	131	140	150	160	170	180	190	200	210	220	230	240	250	260
AB036834	131	140	150	160	170	180	190	200	210	220	230	240	250	260
DSP-13	131	140	150	160	170	180	190	200	210	220	230	240	250	260
DSP-12	131	140	150	160	170	180	190	200	210	220	230	240	250	260
Consensus	131	140	150	160	170	180	190	200	210	220	230	240	250	260
DSP-15	261	270	280	290	300	310	320	330	340	350	360	370	380	390
AB036834	261	270	280	290	300	310	320	330	340	350	360	370	380	390
DSP-13	261	270	280	290	300	310	320	330	340	350	360	370	380	390
DSP-12	261	270	280	290	300	310	320	330	340	350	360	370	380	390
Consensus	261	270	280	290	300	310	320	330	340	350	360	370	380	390
DSP-15	391	400	410	420	430	440	450	460	470	480	490	500	510	520
AB036834	391	400	410	420	430	440	450	460	470	480	490	500	510	520
DSP-13	391	400	410	420	430	440	450	460	470	480	490	500	510	520
DSP-12	391	400	410	420	430	440	450	460	470	480	490	500	510	520
Consensus	391	400	410	420	430	440	450	460	470	480	490	500	510	520
DSP-15	521	530	540	550	560	570	580	590	600	610	620	630	640	650
AB036834	521	530	540	550	560	570	580	590	600	610	620	630	640	650
DSP-13	521	530	540	550	560	570	580	590	600	610	620	630	640	650
DSP-12	521	530	540	550	560	570	580	590	600	610	620	630	640	650
Consensus	521	530	540	550	560	570	580	590	600	610	620	630	640	650
DSP-15	651	660	670	680	690	700	710	720	730	740	750	760	770	780
AB036834	651	660	670	680	690	700	710	720	730	740	750	760	770	780
DSP-13	651	660	670	680	690	700	710	720	730	740	750	760	770	780
DSP-12	651	660	670	680	690	700	710	720	730	740	750	760	770	780
Consensus	651	660	670	680	690	700	710	720	730	740	750	760	770	780